

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
18 August 2005 (18.08.2005)

PCT

(10) International Publication Number
WO 2005/074677 A1

(51) International Patent Classification⁷: **A01K 67/027**

Centre, Ninewells Hospital Medical School, Dundee, DD1 9SY (GB).

(21) International Application Number:

PCT/GB2005/000382

(74) Agent: **HARRISON, Goddard, Foote**; Belgrave Hall, Belgrave Street, Leeds LS2 8DD (GB).

(22) International Filing Date: 3 February 2005 (03.02.2005)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

0402318.0

3 February 2004 (03.02.2004)

GB

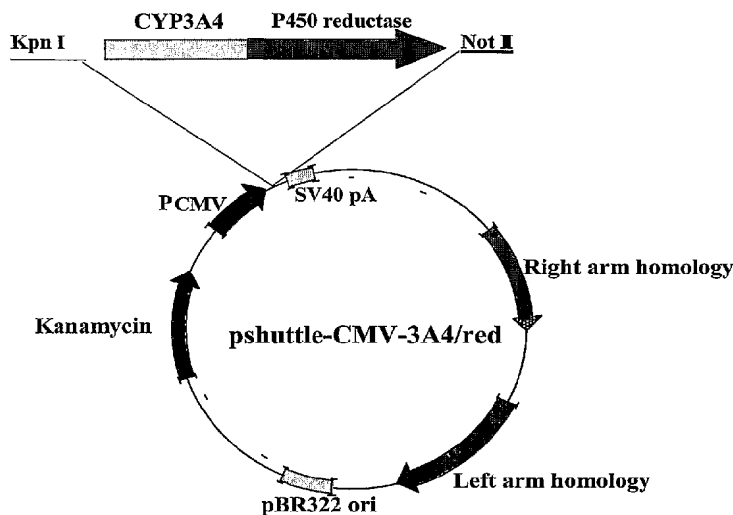
(71) Applicant (for all designated States except US): **IMPERIAL CANCER RESEARCH TECHNOLOGY LIMITED** [GB/GB]; Sardinia House, Sardinia Street, London WC2A 3NL (GB).

(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

[Continued on next page]

(54) Title: TRANSGENIC ANIMALS FOR ASSESSING DRUG METABOLISM AND TOXICITY IN MAN



(57) Abstract: A method of introducing at least one human cytochrome P450 into a non-human animal cell in which corresponding endogenous P450 enzyme activities have been disabled, thus the method provides a way of using a non-human animal cell to make predictions regarding P450-mediated metabolism in a human. The present invention also provides transgenic non-human animals produced by the method of the invention and uses therefor, especially in assessing xenobiotic/drug metabolism and toxicity.



WO 2005/074677 A1



Declaration under Rule 4.17:

— *of inventorship (Rule 4.17(iv)) for US only*

Published:

— *with international search report*

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.